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Usage Notice

Precautions

Follow all warnings, precautions and maintenance as recommended in this user's guide to maximize the life of your unit.

- ⚠ Warning-** Do not look into the projector's lens when the lamp is on. The bright light may hurt your eyes.
- ⚠ Warning-** To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.
- ⚠ Warning-** Please do not open or disassemble the product as this may cause electric shock.
- ⚠ Warning-** When changing the lamp, please allow unit to cool down, and follow all changing instructions.
- ⚠ Warning-** This product will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.
- ⚠ Warning-** Reset the "Lamp Reset" function from the On Screen Display "Management" menu after replacing the lamp module (refer to page 24).
- ⚠ Warning-** When switching the projector off, please ensure the projector completes its cooling cycle before disconnecting power.
- ⚠ Warning-** Turn on the projector first and then the signal sources.
- ⚠ Warning-** Do not use lens cap when projector is in operation.
- ⚠ Warning-** When the lamp reaches the end of its life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn back on until the lamp module has been replaced. To replace the lamp, follow the procedures listed under "Replacing the Lamp".

Usage Notice

Do:

- ❖ Turn off the product before cleaning.
- ❖ Use a soft cloth moistened with mild detergent to clean the display housing.
- ❖ Disconnect the power plug from AC outlet if the product is not being used for a long period of time.

Don't:

- ❖ Block the slots and openings on the unit provided for ventilation.
- ❖ Use abrasive cleaners, waxes or solvents to clean the unit.
- ❖ Use under the following conditions:
 - In extremely hot, cold or humid environments.
 - In areas susceptible to excessive dust and dirt.
 - Near any appliance that generates a strong magnetic field.
 - Place in direct sunlight.

Introduction

Product Features

*This product is an SVGA single chip 0.55" DLP™ projector.
Outstanding features include:*

- ◆ True SVGA, 800 x 600 addressable pixels
- ◆ Single chip DLP™ technology
- ◆ NTSC/NTSC4.43/PAL/PAL-M/PAL-N/SECAM and HDTV compatible
- ◆ Full function remote control
- ◆ User friendly multilingual on screen display menu
- ◆ Advanced electronic keystone correction and high quality full screen image re-scaling
- ◆ User friendly control panel
- ◆ SXGA, XGA compression and VGA, SVGA re-sizing
- ◆ 200 watt user replaceable lamp
- ◆ Mac compatible

Introduction

Package Overview

This projector comes with all the items shown below. Check to make sure your unit is complete. Contact your dealer immediately if anything is missing.



Projector with lens cap



Power Cord 1.8m



VGA Cable 1.8m



Composite Video Cable
1.8m



Carrying Case



Remote Control



2 x Battery

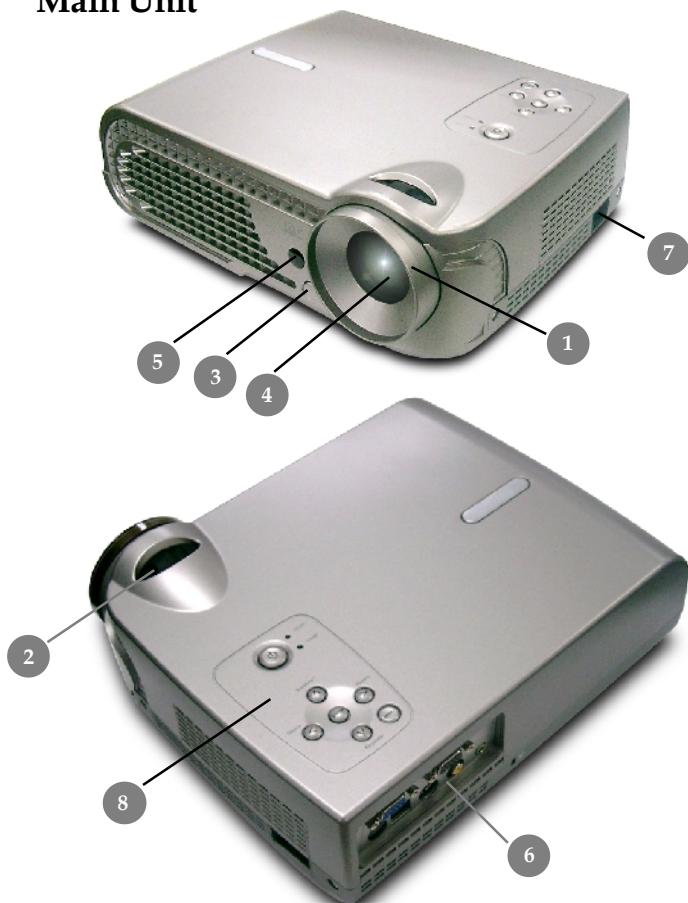
Documents :

- User's Guide
- Quick Start Card
- Warranty Card

Introduction

Product Overview

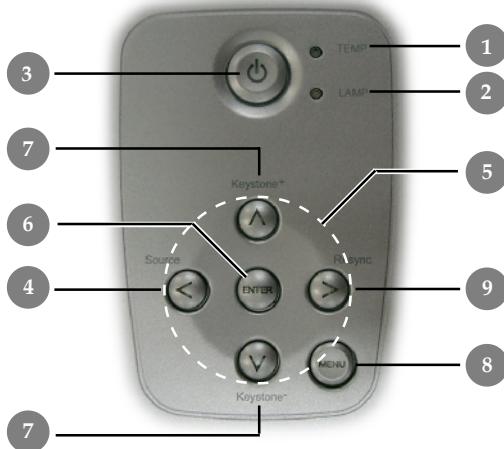
Main Unit



1. Focus Ring
2. Zoom Ring
3. Elevator Button
4. Zoom Lens
5. Remote Control Receiver
6. Connection Ports
7. Power Connector
8. Control Panel

Introduction

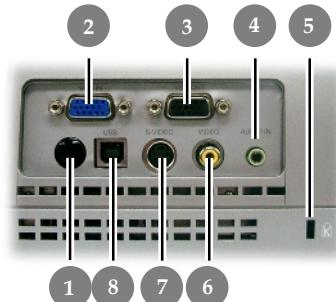
Control Panel



- | | |
|---------------------------------|------------------------|
| 1. Temp Indicator LED | 7. Keystone Correction |
| 2. Lamp Indicator LED | 8. Menu (On/Off) |
| 3. Power/Standy | 9. Re-sync |
| 4. Source | |
| 5. Four Directional Select Keys | |
| 6. Enter | |

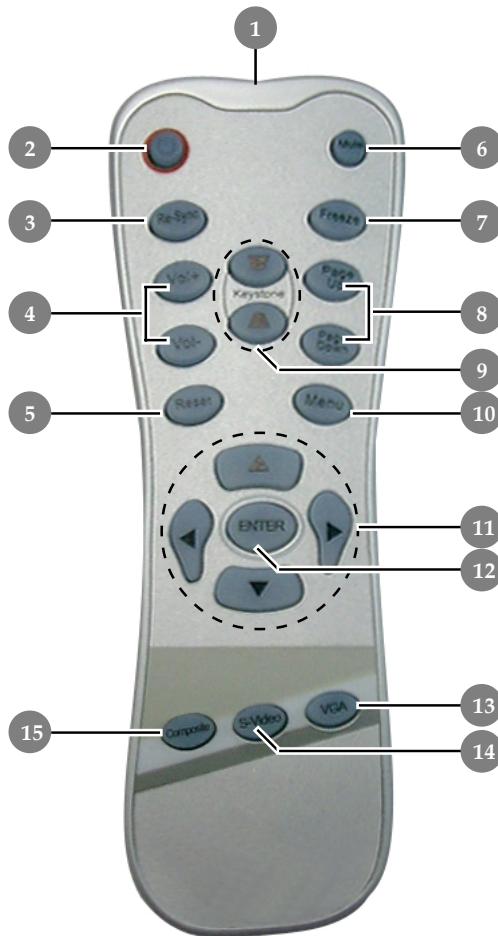
Connection Ports

- | | | | | | | | |
|----------------------------|--|--|--------------------------|--------------------------|------------------------------------|----------------------------|------------------------|
| 1. Remote Control Receiver | 2. PC Analog Signal/HDTV/Component Video Input Connector | 3. Monitor Loop-through Output Connector | 4. Audio Input Connector | 5. Kensington™ Lock Port | 6. Composite Video Input Connector | 7. S-Video Input Connector | 8. USB Input Connector |
|----------------------------|--|--|--------------------------|--------------------------|------------------------------------|----------------------------|------------------------|



Introduction

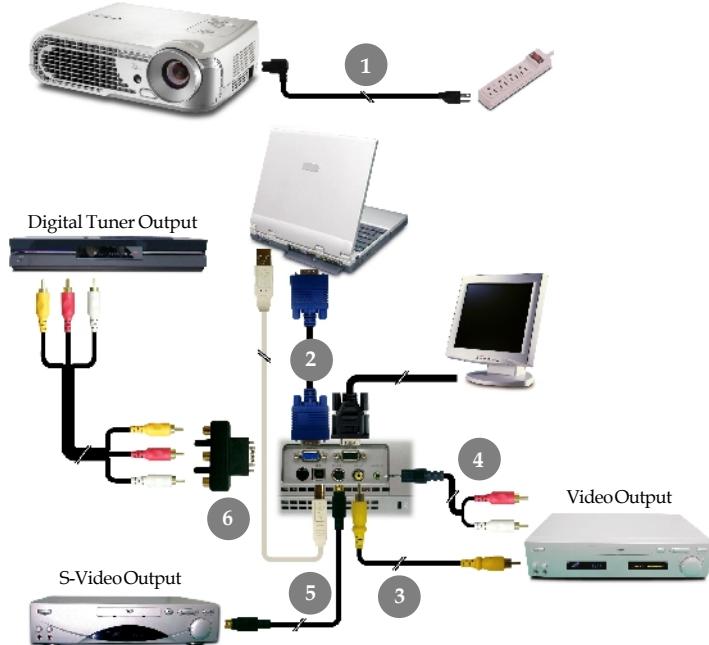
Remote Control



- | | |
|----------------------------------|----------------------------|
| 1. Transmit Indicator Light | 12. Enter |
| 2. Power | 13. VGA Source |
| 3. Re-Sync | 14. S-Video Source |
| 4. Volume (+ / -) | 15. Composite Video Source |
| 5. Reset | |
| 6. Mute | |
| 7. Freeze | |
| 8. Page Up / Page Down | |
| 9. Keystone Correction | |
| 10. Menu | |
| 11. Four Directional Select Keys | |

Installation

Connecting the Projector



1. Power Cord
2. VGA Cable
3. Composite Video Cable
4. Audio Cable Jack/RCA
(Optional Accessory)
5. S-Video Cable (Optional
Accessory)
6. D-15 to RCA Adapter for
YPbPr (Optional Accessory)

❖ To ensure the projector works well with your computer, please set the display mode of your graphic card less than or equal to 800 X 600 resolution. Make sure the timing of the display mode is compatible with the projector. Refer to the "Compatibility Modes" section on page 31.

Installation

Powering On/Off the Projector

Powering On the Projector

1. Remove the lens cap.①
2. Ensure that the power cord and signal cable are securely connected. The "Power/Standby" button will flash **green**.
3. Turn on the lamp by pressing "Power/Standby" button on the control panel. And the "Power/Standby" button will turn **green**.②
The startup screen will display for 30 seconds.
4. Turn on your source (computer, notebook, video player ,etc.).
The projector will detect your source automatically.
 - ❖ If the screen displays "No Signal", please make sure the signal cables are securely connected.
 - ❖ If you connect multiple sources at the same time, use the "Source" button on the remote control or control panel to switch.



❖ Turn on the projector first and then the signal sources.



Installation

Powering Off the Projector

1. Press the “Power/Standby” button to turn off the projector lamp, you will see a message “Power off the lamp?” on the on-screen display.
2. Press the “Power/Standby” button again to confirm. Otherwise the message will disappear after 5 seconds.
3. The cooling fans continue to operate for about 60 seconds for cooling cycle and the “Power/standby” button will turn orange. When the light begins flashing, the projector has entered standby mode.
If you wish to turn the projector back on, you must wait until the projector has completed the cooling cycle and has entered standby mode. Once in standby mode, simply press “Power/Standby” button to restart the projector.
4. Disconnect the power cord from the electrical outlet and the projector.
5. Do not turn on the projector immediately following a power off procedure.

Warning Indicator

- ❖ When the “LAMP” indicator lights solid orange for about 2 minutes, the projector will automatically shut itself down. Please contact your local reseller or service center.
- ❖ When the “TEMP” indicator lights solid orange, it indicates the projector has been overheated. You will see a message “Projector Overheated.” on the on-screen display. The projector will automatically shut itself down.
Under normal conditions, the projector can be switched on again after it has cooled down. If the problem persists, you should contact your local dealer or our service center.
- ❖ When the “TEMP” indicator flashes orange for about 10 seconds, you will see a message “Fan fail. Lamp will automatically turn off soon.” on the on-screen display. Please contact your local dealer or our service center.

Installation

Adjusting the Projected Image

Adjusting the Projector Image Height

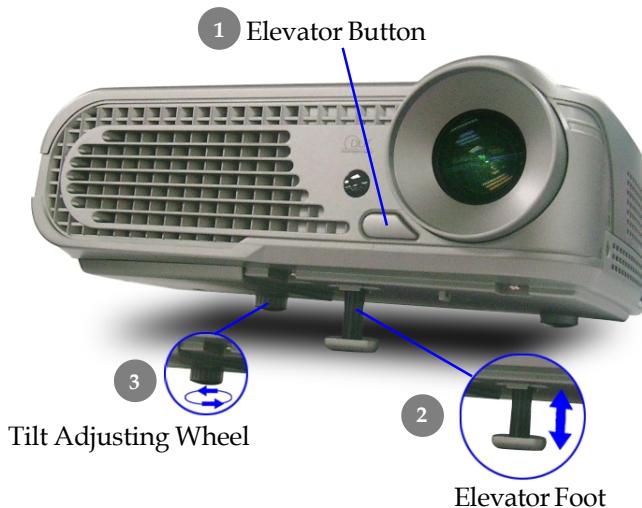
The projector is equipped with an elevator foot for adjusting the image height.

To raise the image:

1. Press the elevator button **①**.
2. Raise the image to the desired height angle **②**, then release the button to lock the elevator foot into position.
3. Use **③** to fine-tune the display angle.

To lower the image:

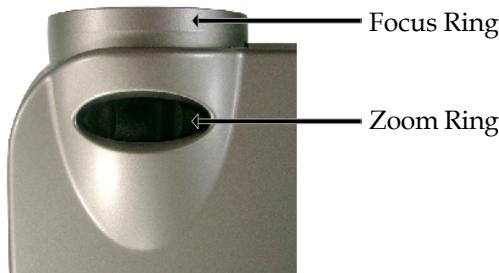
1. Press the elevator button.
2. Lower the image, then release the button to lock the elevator foot into position.
3. Use **③** to fine-tune the display angle.



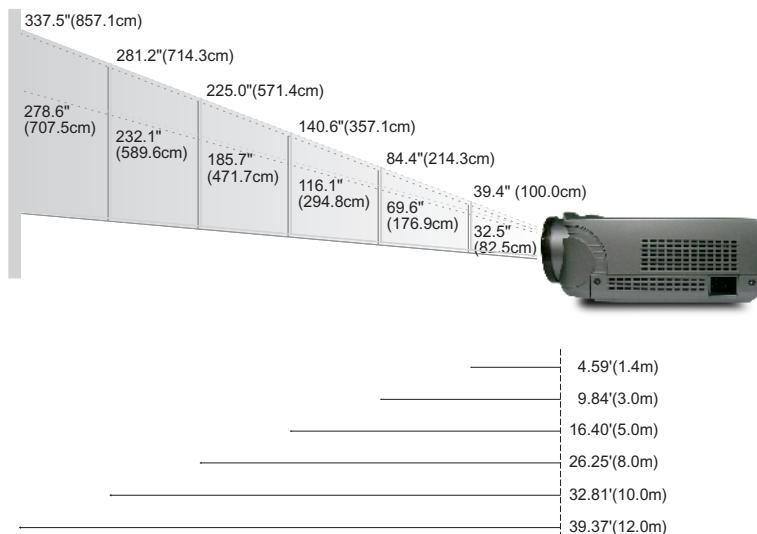
Installation

Adjusting the Projector Zoom / Focus

You may turn the zoom ring to zoom in or out. To focus the image, rotate the focus ring until the image is clear. The projector will focus at distances from 4.6 to 39.4 feet (1.4 to 12.0 meters).



Adjusting Projection Image Size



❖ This graph is for user's reference only.

User Controls

Control Panel & Remote Control

There are two ways for you to control the functions: Remote Control and Control Panel.

Control Panel



Remote Control



Using the Control Panel

Power/Standyby

- Refer to the “Power On/Off the Projector” section on pages 10-11.

Source

- Press “Source” to choose RGB, Component-p, Component-i, S-Video, Composite Video and HDTV sources.

Menu

- Press “Menu” to launch the on screen display (OSD) menu. To exit OSD, press “Menu” again.

Keystone

- Adjusts image distortion caused by tilting the projector (± 16 degrees).

Four Directional Select Keys

- Use to select items or make adjustments to your selection.

Enter

- Confirm your selection of items.

Re-Sync

- Automatically synchronizes the projector to the input source.

User Controls

Using the Remote Control

Power/Standy

- Refer to the “Power On/Off the Projector” section on pages 10-11.

Re-Sync

- Automatically synchronizes the projector to the input source.

Volume +/-

- Increases/decreases speaker volume.

Reset

- Changes the adjustments and settings to the factory default value.

Mute

- Momentarily turns off the audio and video.

Keystone /

- Adjusts image distortion caused by tilting the projector (± 16 degrees).

Page Up (Computer mode only)

- Use this button to page up. This function is only available when the projector is connected to a computer via an USB cable.

Page Down (Computer mode only)

- Use this button to page down. This function is only available when the projector is connected to a computer via an USB cable.

Freeze

- Press “Freeze” to pause the screen image.

Four Directional Select Keys

- Use     to select items or make adjustments to your selection.

Menu

- Press “Menu” to launch the on screen display menu. To exit OSD, press “Menu” again.

Enter

- Confirm your selection of items.

VGA

- Press “VGA” to choose Analog RGB, component and HDTV source.

S-Video

- Press “S-Video” to choose S-Video source.

Composite

- Press “composite” to choose Composite video source.

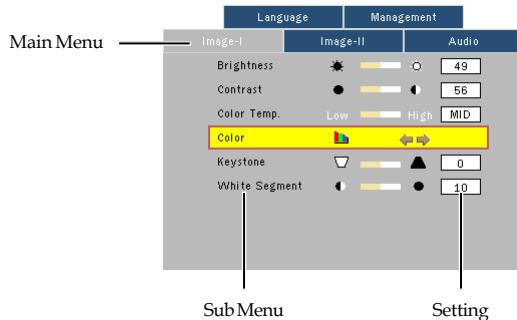
User Controls

On Screen Display Menus

The Projector has multilingual On Screen Display menus that allow you to make image adjustments and change a variety of settings. The projector will automatically detect the source.

How to operate

1. To open the OSD menu, press "Menu" on the Remote Control or Control Panel.
2. When OSD is displayed, use keys to select any item in the main menu. While making a selection on a particular page, press "Enter" key to enter sub menu.
3. Use keys to select the desired item and adjust the settings by key.
4. Select the next item to be adjusted in the sub menu and adjust as described above.
5. Press "Menu" to confirm, and the screen will return to the main menu.
6. To exit, press "Menu" again. The OSD menu will close and the projector will automatically save the new settings.



User Controls

Computer / Video Mode



Language

Language

Choose the multilingual OSD menu . Use the or key to select your prefered language.

Press "Enter" to finalize the selection.

User Controls

Computer / Video Mode

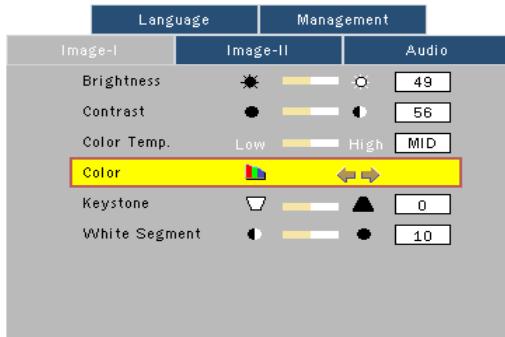


Image-I

Brightness

Adjust the brightness of the image.

- ▶ Press the to darken image.
- ▶ Press the to lighten the image.

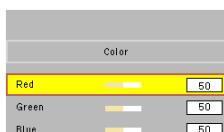
Contrast

The contrast controls the degree of difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.

- ▶ Press the to decrease the contrast.
- ▶ Press the to increase the contrast.

Color Temp.

Adjust the color temperature. At higher temperature, the screen looks colder; at lower temperature, the screen looks warmer.



Color

Adjust the red, green and blue colors.

Keystone (Keystone Correction)

Adjust image distortion caused by tilting projection. (± 16 degrees)

White Segment

Use the white segment control to set the white peaking level of DMD chip. 0 stands for minimal peaking, and 10 stands for maximum peaking. If you prefer a stronger image, adjust towards the maximum setting. For a smooth and more natural image, adjust towards the minimum setting.

User Controls

Computer Mode

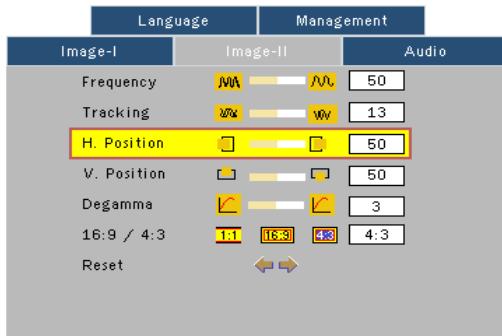


Image-II (Computer Mode)

Frequency

"Frequency" changes the display data frequency to match the frequency of your computer's graphic card. If you experience a vertical flickering bar, use this function to make an adjustment.

Tracking

"Tracking" synchronizes the signal timing of the display with the graphic card. If you experience an unstable or flickering image, use this function to correct it.

Horizontal Position

- ▶ Press the to move the image left.
- ▶ Press the to move the image right.

Vertical Position

- ▶ Press the to move the image down.
- ▶ Press the to move the image up.

Degamma

This allows to you to choose a degamma table that has been fine-tuned to bring out the best image quality for the input.

16 : 9 / 4 : 3

Use this function to choose your desired aspect ratio.

- ▶ 1:1 : Original image pixel.
- ▶ 4:3 : The input source will be scaled to fit the projection screen.
- ▶ 16:9 : The input source will be scaled to fit the width of the screen.

User Controls

Computer Mode

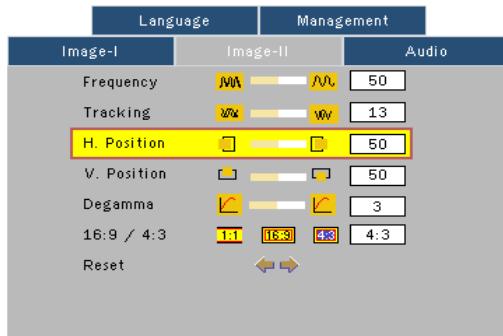
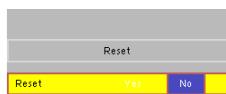


Image-II (Computer Mode)



Reset

Choose "Yes" to return the display parameters (except for Lamp Hour) on all menus to their factory default settings.

User Controls

Video Mode

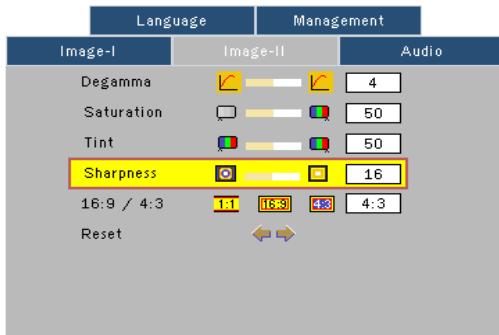


Image-II (Video Mode)

Degamma

This allows you to choose a degamma table that has been fine-tuned to bring out the best image quality for the input.

Saturation

Adjusts a video image from black and white to fully saturated color.

- ▶ Press the to decrease the amount of color in the image.
- ▶ Press the to increase the amount of color in the image.

Tint

Adjusts the color balance of red and green.

- ▶ Press the to increase the amount of green in the image.
- ▶ Press the to increase the amount of red in the image.

Sharpness

Adjusts the sharpness of the image.

- ▶ Press the to decrease the sharpness.
- ▶ Press the to increase the sharpness.

16 : 9 / 4 : 3

Use this function to choose your desired aspect ratio.

- ▶ 1:1 : Original image pixel.
- ▶ 4:3 : The input source will be scaled to fit the projection screen.
- ▶ 16:9 : The input source will be scaled to fit the width of the screen.

User Controls

Video Mode

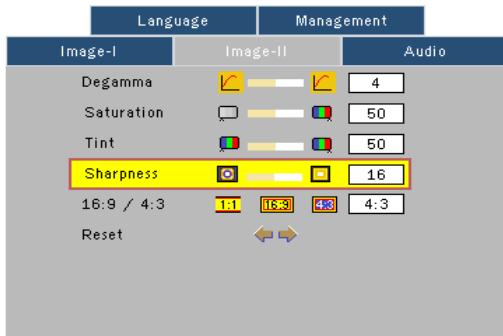
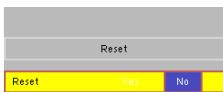


Image-II (Video Mode)



Reset

Choose "Yes" to return the display parameters (except for Lamp Hour) on all menus to their factory default settings.

User Controls

Computer / Video Mode



Audio

Volume

- ▶ Press the to decrease the volume.
- ▶ Press the to increase the volume.

Treble

The treble setting controls the higher frequencies of your audio source.

- ▶ Press the to decrease the treble.
- ▶ Press the to increase the treble.

Bass

The Bass setting controls the lower frequencies of your audio source.

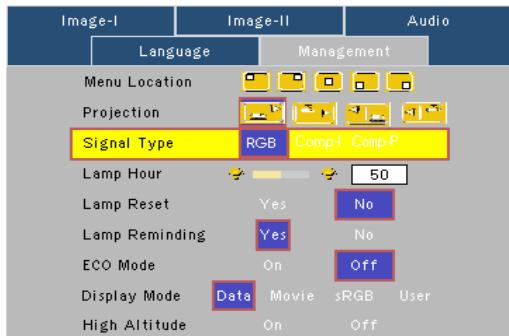
- ▶ Press the to decrease the bass.
- ▶ Press the to increase the bass.

Mute

- ▶ Choose the left icon to turn mute on.
- ▶ Choose the right icon to turn mute off.

User Controls

Computer / Video Mode



Management

Menu Location

Choose the Menu location on the display screen.

Projection

- ▶ **Front-Desktop**

The factory default setting.

- ▶ **Rear-Desktop**

When you select this function, the projector reverses the image so you can project behind a translucent screen.

- ▶ **Front-Ceiling**

When you select this function, the projector turns the image upside down for ceiling-mounted projection.

- ▶ **Rear-Ceiling**

When you select this function, the projector reverses and turns the image upside down at same time. You can project from behind a translucent screen with ceiling mounted projection.

Signal Type

Select signal type RGB, Component-i or Component-p sources.

Lamp Hour

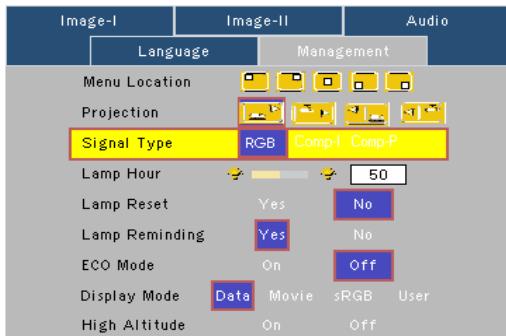
Displays the lamp's elapsed operating time (in hours).

Lamp Reset

Turns the lamp hour counter to 0 hours.

User Controls

Computer / Video Mode



Management

Lamp Reminding

Choose this function to show or to hide the warning message when the changing lamp message is displayed. The message will show up 30 hours before end of life.

ECO Mode

Choose "On" to dim the projector lamp which will lower power consumption and extend the lamp life by up to 130%.

Choose "Off" to return normal mode.

Display Mode

There are 4 factory presets optimized for various types of images.

- ▶ Data : For computer or notebook.
- ▶ Movie : For home theater.
- ▶ sRGB : For standard color. (Computer mode only)
- ▶ User : For user adjustable settings.

Appendices

Troubleshooting

If you experience trouble with the projector, refer to the following information. If the problem persists, please contact your local reseller or service center.

Problem: No image appears on screen.

- ▶ Ensure all the cables and power connections are correctly and securely connected as described in the "Installation" section.
- ▶ Ensure the pins of connectors are not crooked or broken.
- ▶ Check if the projection lamp has been securely installed. Please refer to the "Replacing the lamp" section.
- ▶ Make sure you have removed the lens cap and the projector is switched on.

Problem: Partial, scrolling or incorrectly displayed image.

- ▶ Press the "Re-Sync" button on the Remote Control or the Control Panel.
- ▶ If you use a PC:
If the resolution of your computer is higher than 800 x 600.
Follow the steps outlined below to reset the resolution.

For Windows 3.x:

1. In the Windows Program Manager, click the "Windows Setup" icon in the Main group.
2. Verify that your display resolution setting is less than or equal to 800 x 600.

For Windows 95,98,2000,XP:

1. Open "My Computer" icon, the "Control Panel" folder, and then double click on the "Display" icon.
2. Select the "Setting" tab.
3. In the "Desktop Area" you will find the resolution setting.
Verify that the resolution setting is less than or equal to 800 x 600 resolution.

If the projector is still not projecting the whole image, you will also need to change the monitor display you are using. Refer to the following steps.

4. Follow the above steps 1-2. Click on the "Advanced Properties" button.
5. Select the "Change" button under the "Monitor" tab .
than or equal to 800 x 600.

Appendices

6. Click on “Show all devices”. Then select “Standard monitor types” under the “Manufacturers” box ; choose the resolution mode you need under the “Models” box.
7. Verify that the resolution setting of the monitor display is less than or equal to 800 x 600.
 - ▶ If you are using a Notebook PC:
 1. You are required to implement the above steps of resolution setting of the computer first.
 2. Switch the Notebook PC display to the “external display only” or “CRT only” mode.
 - ▶ If you experience difficulty in changing resolutions or your monitor freezes, restart all the equipment and the projector.

Problem: The screen of the Notebook or PowerBook computer is not displaying your presentation.

- ▶ If you are using a Notebook PC:
Some Notebook PCs may deactivate their screens when a second display device is in use. Refer to your computer’s documentation for information on how to reactivate the monitor display.
- ▶ If you are using an Apple PowerBook:
In Control Panels, open the PowerBook Display to select Video Mirroring “On”.

Problem: Image is unstable or flickering

- ▶ Use “Tracking” to correct it. Refer to page 19.
- ▶ Change the monitor color setting from your computer.

Problem: Image has vertical flickering bar

- ▶ Use “Frequency” to make an adjustment. Refer to page 19.
- ▶ Check and reconfigure the display mode of your graphic card to make it compatible with the product. Refer to page 26.

Problem: Image is out of focus

- ▶ Adjusts the Focus Ring on the projector lens. Refer to page 13.
- ▶ Make sure the projection screen is between the required distance 4.6 to 39.4 feet (1.4 to 12.0 meters) from the projector.

Appendices

Problem: The image is outstretched when displaying 16:9 DVD.

The projector automatically detects 16:9 DVD and adjusts the aspect ratio by digitizing to full screen with 4:3 default setting.

If the image is still outstretched, you will also need to adjust the aspect ratio by referring to the following:

- ▶ Please select 4:3 aspect ratio type on your DVD player if you are playing a 16:9 DVD.
- ▶ If you can't select 4:3 aspect ratio type on your DVD player, please select 4:3 aspect ratio in the on screen menu.

Problem: Image is reversed.

- ▶ Select "Management" from the OSD and adjust the projection direction. See page 24.

Problem: Lamp burns out or makes a popping sound

- ▶ When the lamp reaches its end of life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn on until the lamp module has been replaced. To replace the lamp, follow the procedures in the "Replacing the Lamp". See page 29.

Problem: LED lighting message

Message	Power LED		Temp LED	Lamp LED
	Green	Orange		
Standby State (Input power cord)	Flashing	Off	Off	Off
Lamp lighting	On	Off	Off	Off
Power on	On	Off	Off	Off
Power off	Off	On	Off	Off
Error (Lamp fail)	Off	On	Off	On
Error (Thermal fail)	On	Off	On	Off
Error (Fan lock fail)	Off	On	Flashing	Off
Error (Over Temp.)	Off	On	On	Off
Error (Lamp Breakdown)	Off	On	Off	On

Problem: Message Reminders

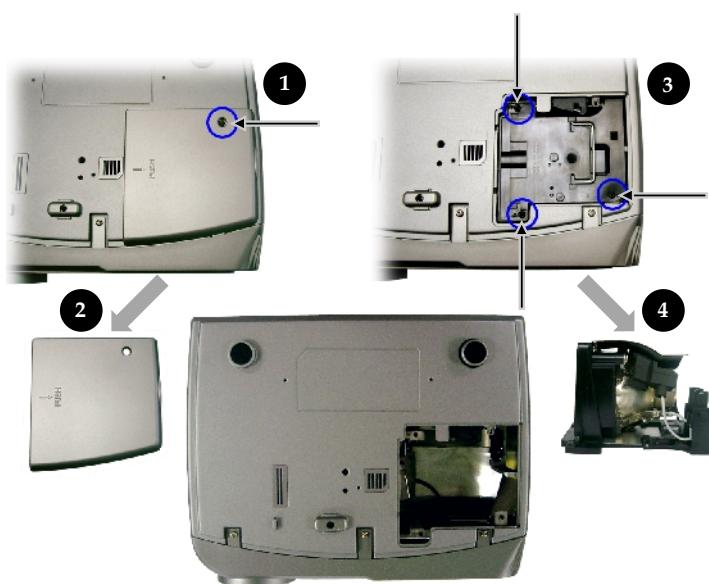
- ▶ "Lamp may fail soon! Replacement suggested!" will be shown about 10 seconds when lamp life is going to deplete.
- ▶ "Projector Overheated. Lamp will automatically turn off soon." will be shown when the system temperature is over heat.
- ▶ "Fan fail. Lamp will automatically turn off soon." will be shown when the fan is out of order.

Replacing the lamp

The projector will detect the lamp life itself. It will show you a warning message "Lamp may fail soon ! Replacement Suggested !" When you see this message, change the lamp as soon as possible.



⚠ Warning: Lamp compartment is hot! Allow it to cool down before changing lamp!



⚠ Warning: To reduce the risk of personal injury, do not drop the lamp module or touch the lamp bulb. The bulb may shatter and cause injury if it is dropped.

Lamp Changing Procedure:

1. Turn off the power to the projector by pressing the Power button.
2. Allow the projector to cool down at least 30 minutes.
3. Disconnect the power cord.
4. Use a screwdriver to remove the screw from the cover.①
5. Push up and Remove the cover.②
6. Remove the 3 screws from the lamp module.③
7. Pull out the lamp module.④

To replace the lamp module, reverse the previous steps.

Appendices

Specifications

Light Valve	- Single Chip DLP™ Technology by Texas Instruments
Lamp	- 200W User Replaceable Lamp
Number of Pixels	- 800 pixels(H) X 600 lines(V)
Displayable Color	- 16.7M colors
Projection Lens	- F/2.4~2.7 f=19.7~23.6mm with 1.2x Manual zoom lens
Projection Screen Size (Diag.)	- 32.5 to 337.5 inches (0.83 to 8.57 meters) Diagonal
Projection Distance	- 4.6 to 39.4 feet (1.4 to 12.0 meters)
Video Compatibility	- NTSC/NTSC 4.43/PAL/PAL-M/PAL-N/SECAM and HDTV compatible - Composite video & S-Video capability
H. Frequency	- 31.5kHz~70kHz horizontal scan
V. Frequency	- 43Hz~85Hz vertical refresh
Power Supply	- Universal AC input 100-240V ; Input Frequency 50/60Hz
I/O Connectors	- Power: AC power input socket - Computer Input: One VGA for analog/component and HDTV signal - Computer Output One 15-pin D-sub computer output - Video Input: One Composite video RCA input One S-Video input - USB Input: One USB connector - Audio Input: One phone jack for audio input
Dimensions (W x H x D)	- 10.7 x 3.4 x 8.3 inches (272 x 86 x 210 mm)
Environmental	- Operating Temperature: 41~95°F (5~35°C) Humidity: 80% maximum (Non-condensing) - Storage Temperature: -4~140°F (-20~60°C) Humidity: 80% maximum (Non-condensing)
Safety Regulation	- FCC Class B, CE Class B, VCCI-II, UL, cUL, TÜV-GS, CCC (China), PSE, CB Report

Appendices

Compatibility Modes

Mode	Resolution	(ANALOG)	
		V.Frequency (Hz)	H.Frequency (kHz)
VESA VGA	640 X 350	70	31.5
VESA VGA	640 X 350	85	37.9
VESA VGA	640 X 400	85	37.9
VESA VGA	640 X 480	60	31.5
VESA VGA	640 X 480	72	37.9
VESA VGA	640 X 480	75	37.5
VESA VGA	640 X 480	85	43.3
VESA VGA	720 X 400	70	31.5
VESA VGA	720 X 400	85	37.9
SVGA	800 X 600	56	35.2
SVGA	800 X 600	60	37.9
SVGA	800 X 600	72	48.1
SVGA	800 X 600	75	46.9
SVGA	800 X 600	85	53.7
* VESA XGA	1024 X 768	43.4	35.5
* VESA XGA	1024 X 768	60	48.4
* VESA XGA	1024 X 768	70	56.5
* VESA XGA	1024 X 768	75	60.0
* VESA XGA	1024 X 768	85	68.7
* VESA SXGA	1280 X 1024	60	63.98
* VESA SXGA +	1400 X 1050	60	63.98
MAC II 13	640 X 480	66.68	35
* MAC 16"	832 X 624	74.55	49.725
* MAC 19"	1024 X 768	75	60.24
* MAC	1152 X 870	75.06	68.68
MAC G4	640 X 480	60	31.35
* iMAC DV	1024 X 768	75	60



Remark : "*" compressed computer image.